

Specification Amendments

Please amend the paragraph beginning on page 7, line 1 as follows:

In a fuel cell **200**, the fuel cell stack **100** can be sandwiched between two current collectors **150**, **160** as shown in Figure 5. The current collector **150** has a plurality of channels **152** to allow the liquid methanol to circulate around the MEA segments **110** on the anode side **202**. Likewise, the current collector **160** has a plurality of channels **162** to allow air to circulate around the MEA segments **110** on the cathode side **204**. The current collectors **150** and **160** can be designed such that they also provide mechanical support to the fuel cell stack **100**. With the arrangement as shown in Figure 5, each of the MEA segments **110** acts like a separate fuel cell unit and all of the MEA segments **110** on the substrate **[[120]] 140** are electrically connected in parallel.

Please amend the paragraph beginning on page 7, line 10 as follows:

Alternatively, the MEA segments **110** can also be electrically connected in series, as shown in Figures 6a and 6b. As shown in Figure 6a, a net-like structure **171** is used to collect the electrical charge on the anode side **202** of the fuel cell **200**, and a similar structure **170** is used to collect the electrical charge on the cathode side **204** of the fuel cell **200**. The structure **171** comprises a plurality of electrically conductive segments **173**, each of which is disposed in the proximity of the anode side of an MEA segment **110**. Likewise, the structure **170** comprises a plurality of electrically conductive segments **172**, each of which is disposed in the proximity of the cathode side of an MEA segment **110**. The substrate **[[120]] 140** further has a plurality of electrically conductive connectors or feed-throughs **176** for electrically connecting one electrically conductive segment **173** to one electrically conductive segment **172**. The MEA segments **110** so connected are effectively a plurality of fuel cell units connected in series. Preferably, an electrically non-conductive housing **180** is used to support the fuel cell stack **100** and the net-like structure **171** on the anode side **202**, and another electrically non-conductive housing **190** is used to support the fuel cell stack **100** and net-like structure **170** on the cathode

side. It is understood that the net-like structures **170, 171** are designed such that while the electrically conductive segments **173**, along with the electrically conductive segments **172**, can be used to collect electrical current efficiently, the electrically conductive segments **172, 173** also allow liquid methanol and air to circulate sufficiently around the MEA segments **110** via the flow channels **182** in the housing **180** and the flow channels **192** in the housing **190**.